

REMARKS

By this amendment, claims 1-10 have been amended and claim 11 has been newly added. Accordingly, claims 1-11 are currently pending in the application, of which claim 1 is independent.

Entry of the Amendments and Remarks is respectfully requested because entry of Amendment places the present application in condition for allowance, or in the alternative, better form for appeal. No new matters are believed to be added by these Amendments.

In view of the above amendments and the following Remarks, Applicant respectfully requests reconsideration and timely withdrawal of the pending objections and rejections for the reasons discussed below.

Rejections Under 35 U.S.C. § 112, second paragraph

Claims 1-10 stand rejected under 35 U.S.C. § 112, second paragraph as being indefinite. Particularly, the Examiner stated “the claimed limitation of a peripheral area including an upper region arranged above the display area and a lower region arranged below the display area ... is unclear” (Office Action, page 2). Applicant respectfully traverses this rejection for at least the following reasons.

In this response, claim 1 has been amended to clarify this issue. For example, amended claim 1 recite “an insulating substrate including a display area and a peripheral area surrounding the display area, the peripheral area including a *first peripheral region* arranged along a first edge of the display area and a *second peripheral region* arranged along a second edge of the display area”.

It is believed that the amended claim 1 fully complies with the requirements of 35 U.S.C. § 112, second paragraph. Accordingly, Applicant respectfully requests withdrawal of the 35 U.S.C. § 112, second paragraph rejection of claims 1-10.

Rejections Under 35 U.S.C. § 103

Claims 1-10 stand rejected under 35 U.S.C. § 103(a) as being allegedly unpatentable over U. S. Patent No. 6,380,992 issued to Lee (“Lee”). Applicant respectfully traverses this rejection for at least the following reasons.

Amended independent claim 1 recites “a second repair line formed in the first peripheral region and crossing *all of the plurality of signal lines*”. An example of this claimed feature is shown in Fig. 1 of the present application, in which the second repair line 43 is crossing all the signals lines all of the signal lines formed on the insulating substrate 10.

In this regard, the Examiner asserted that Lee discloses that the lower part of the lines 220a and 220b correspond to the claimed second repair line. However, as shown in Fig. 7, the lower part of the lines 220a and 220b are crossing only the five signal lines connected to a single block of the data pads 121, but does not crossing the signal lines connected to other blocks of the data pads 121. Thus, it is submitted that Lee fails to disclose or suggest “a second repair line formed in the first peripheral region and crossing *all of the plurality of signal lines*”.

Also, claim 1 recites:

“...
a plurality of third repair lines formed in the second peripheral region and connected to the first repair lines corresponding thereto, wherein each third repair line crosses the signal lines crossed by the corresponding first upper repair line;
a fourth repair line formed in the second peripheral region and crossing all of the plurality of signal lines; ...”

In this regard, Lee fails to disclose all of these limitations. In fact, Lee is directed to “A method of forming a defective *pad* repair structure” (Abstract). For this purpose, Lee discloses a pair of defective pad repair lines 220a and 220b formed in a pad region. Thus, there is no suggestion from Lee to modify itself such that the claimed third repair lines and a fourth repair line are formed to repair a *signal line* disconnected in the display region.

For these reasons, it is respectfully submitted that, at the time of the invention, the subject matter of claim 1 would not have been obvious to one skilled in the art. Thus, it is submitted that claim 1 is patentable over Lee. Claims 2-10 are dependent from claim 1 would be also patentable at least for the same reason. Accordingly, Applicant respectfully requests withdrawal of the 35 U.S.C. § 103 rejection of claims 1-10.

Added claims.

In this response, the last four lines of claim 1 has been deleted and transferred to new claim 11. Claim 11 recites “a plurality of first connection members, each *crossing* the first repair line and the second repair line”. An example of this claimed feature is also shown in Fig. 1, in which the connecting member 47 is crossing first repair line 41 and the second repair line 43.

In this regard, the Examiner asserted that, in Lee, the vertical connections connecting the upper part of lines 220a, 220b to the lower part of lines 220a, 220b correspond to the claimed plurality of first connection members. However, theses vertical connections are merely coupled between the upper part and lower part of the lines 220a, 200b and they do not *cross* the upper part and lower part of the lines 220a, 200b.

It is submitted that Lee fails to disclose or suggest “a plurality of first connection members, each *crossing* the first repair line and the second repair line”. Thus, it is submitted that claim 11 is patentable over Lee.

Other Matters

In addition to the amendment mentioned above with respect to the rejection under 35 U.S.C. §112, second paragraph, claim 1 has been amended for better wording and clarification purposes only. Also, claims 2-10 have been amended to be consistent with the amendments made to claim 1 and for better wording and clarification purposes only.

As mentioned above, the claimed invention is significantly different from the cited reference. Thus, none of the amendments has been made for the purpose of avoiding prior art or narrowing the claimed invention, and no change in claim scope is intended. Therefore, Applicant does not intend to relinquish any subject matter by these amendments.

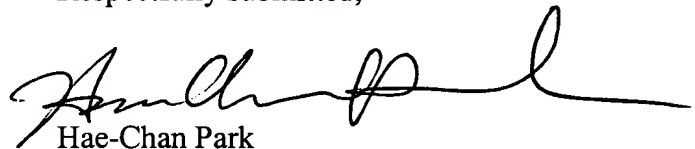
CONCLUSION

Applicant believes that a full and complete response has been made to the pending Office Action and respectfully submits that all of the stated objections and grounds for rejection have been overcome or rendered moot. Accordingly, Applicant respectfully submits that all pending claims are allowable and that the application is in condition for allowance.

Should the Examiner feel that there are any issues outstanding after consideration of this response, the Examiner is invited to contact the Applicant's undersigned representative at the number below to expedite prosecution.

Prompt and favorable consideration of this Reply is respectfully requested.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Hae-Chan Park', with a long horizontal flourish extending to the right.

Hae-Chan Park
Reg. No. 50,114

Date: September 14, 2004

McGuireWoods LLP
1750 Tysons Boulevard
Suite 1800
McLean, VA 22102-4215
Tel: 703-712-5365
Fax: 703-712-5280
HCP:WSC/gjb

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